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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/786,833	SOIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	KISHIN G. BELANI	2443			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>25 Fe</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-88 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-88 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 25 February 2004 is/are	vn from consideration. relection requirement. r.	d to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 02/25/2004.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(e), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statement submitted on 02-25-2004 has been considered by the Examiner and made of record in the application file.

Specification

The disclosure is objected to because of the following informalities:

- In the abstract, on line 1, replace "provided hat enable" to provided that
 enable --
- In paragraph 0001, the application number of the copending application number is set to XX/YYY,YYY. Please provide the missing application number.
- In paragraph 0091, replace "Once the an alternate display" to Once an alternate display --

Appropriate correction is required.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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Claims 18, 57 and 73 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 18, 57 and 73 recite "a modulated data signal carrying computer executable instructions". This subject matter is not limited to that which falls within a statutory category of invention because it is not limited to a process, machine, manufacture, or a composition of matter. Instead, it includes a form of energy. Energy does not fall within a statutory category since it is clearly not a series of steps or acts to constitute a process, not a mechanical device or combination of mechanical devices to constitute a machine, not a tangible physical article or object which is some form of matter to be a product and constitute a manufacture, and not a composition of two or more substances to constitute a composition of matter.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 19-29; 30-40 and 75 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 19 and 21 recite "at least one projection protocol". However, projection protocol is not described in the applicants' specification. The examiner has interpreted

said projection protocol to mean discovery protocol. **Dependent claims 20-29 are also rejected** based on their dependence on the rejected independent claim 19.

Claims 30 and 35 recite "at least one extension protocol". However, extension protocol is not described in the applicants' specification. **Dependent claims 31-40 are also rejected** based on their dependence on the rejected independent claim 30.

Claims 24, 26, 27, 29, 31, 33, 38 and 40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 24, 26, 27, 29, 31, 33, 38 and 40 recite "an indication of said at least one indication". It is not clear what the applicants are trying to claim. The examiner has interpreted the claim text to mean selecting one of the alternate display devices from a list of alternate display devices discovered and shown on the user interface in claim 19.

Dependent claims 25, 28, 32, 39 are also rejected based on their dependence on the rejected claims 24, 26, 31 and 38.

Claim 75 recites "blacking out the projection session". However, "blacking out" is not described in the applicants' specification. The examiner has interpreted said "blacking out" to mean "blanking out".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 76-78 are rejected under 35 U.S.C. 102(b) as being anticipated by Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1).

Consider claim 76, Chang et al. show and disclose a method for receiving projected content by a computing device from a content sending device (Fig. 1 that shows a plurality of content sending devices 100 and a plurality of receiving devices 140 capable of receiving and projecting contents connected by wireless or wired networks; paragraph 0062 which discloses that an output controller 120 installed or connected to an output device 140, enables the output device to communicate and negotiate services with information apparatus 100 (a content sending device)), comprising: specifying via a user interface mechanism of the computing device that the computing device is available to receive projected content (Fig. 8B which shows a user interface 810 that includes a discovery protocol to find the desired service providing devices; the interface clearly showing that one or more computing devices are available to receive projected content; paragraph 0199 discloses the same details); and broadcasting the availability of the computing device via a discovery protocol, so that a content sending device that is looking for available alternate display devices receives an indication that the machine is available (paragraph 0136 that describes three different scenarios for discovering receiving devices using the discovery protocol; the second scenario teaches that all service devices can periodically or continuously announce or

advertise the services they provide; further disclosing that the information apparatus 100 (content sending device) listens to such announcements and identifies the service it needs; the results of such a scenario are shown in Fig. 8B;

Note: Although Chang et al. reference uses a printer as a display device for the sake of example, paragraph 0094 clearly lists and states other output devices including projectors).

Consider claim 77, and as it applies to claim 76 above, Chang et al. show and

disclose the claimed method, further comprising: in response to said broadcasting, receiving a request to project content from the content sending device (Fig. 8B, user interface 810 and Fig. 8C, device interface 820, wherein Fig. 8C shows a response from the content receiving device, pointing out a missing printer driver for a printer that the user at the content sending device does not have, thereby disclosing that the user, in response to said broadcasting during the discovery process, must have selected one of the printers from the user interface 810 in Fig. 8B, and sent a request to project contents by the content receiving device); specifying via the user interface whether the request is accepted (by sending back the response 820, the content receiving device indicates that the request for the negotiated service is accepted; paragraph 0201 describes the same details); transmitting to the content sending device whether the request is accepted (Figs. 8C-8E, response screens 820-820 that show content receiving device 140 transmitting acceptance of the service request in response to the request from the content sending

device; paragraphs 0202-0205 disclose the same details); and

if the request is accepted, receiving content from the content sending device (Fig. 8F that shows that the content from the content sending device has been received by the output device 140 and is being printed).

Consider claim 78, and as it applies to claim 77 above, Chang et al. show and disclose the claimed method, further comprising:

displaying the content on a display of the computing device (Fig. 1 that shows a plurality of content receiving devices 140 that are capable of displaying the received contents, including desktops, etc.; Fig. 8F that shows the received content that is being printed, when the selected output device is a printer; paragraph 0205 describes the same details;

Note: Although no display device is shown in Fig. 8F, paragraph 0094 clearly mentions that the printer is just one sample example of an output device, many other output devices such as, televisions, monitors, and projectors are also disclosed).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 2, 11, 12, 16-24, 30 and 35-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1).

Consider **claim 1**, Nurcahya et al. show and disclose a method for projecting content from a computing device to alternate display device(s) (abstract that describes wirelessly projecting content (advertisements and promotional material for products and services) from an advertisement server 40 (shown in Fig. 1) to a plurality of portable data terminals (PDT) 20 with displays 22; paragraph 0019 discloses the same details), comprising:

transmitting the content to the selected at least one alternate display device (Fig. 4, step 63 that shows transmitting preview to selected PDTs through network (the Internet 18 in Fig. 1); paragraph 0029 describes the same details; Figs. 2-3 show the details of said PDTs).

Although Nurcahya et al. do show a user interface 51 (in Fig. 5), and disclose selecting one or more alternate display devices (paragraph 0019 which discloses that the advertising server 40 allows controlled advertising on the network 18 to each of the plurality of portable data terminals 20 such as through the display 22 or other user interface by having the advertising software select, launch, and initiate the advertisement at all or selected ones of the plurality of PDTs 20), it does not specifically display via a user interface mechanism at least one indication corresponding to available alternate display devices; and selecting via selecting via the user interface mechanism at least one alternate display device from the alternate display devices indicated as available by said at least one indication.

In the same field of endeavor, Chang et al. show and disclose the claimed method, including displaying via a user interface mechanism at least one indication

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corresponding to available alternate display devices (flowchart of Fig. 6, that shows providing a list of discovered output devices to user in step 600; Fig 8B that shows a Graphic User Interface 810 displaying discovered printer devices; paragraph 0196 and 0199 disclose the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also be a television, monitor, and projectors, etc.); and selecting via the user interface mechanism at least one alternate display device from the alternate display devices indicated as available by said at least one indication (Fig 8B; Graphic User Interface 810 showing discovered printer devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to display via a user interface mechanism at least one indication corresponding to available alternate display devices; and select via the user interface mechanism at least one alternate display device from the alternate display devices indicated as available by said at least one indication, as taught by Chang et al. in the method of Nurcahya et al., so that the advertiser user is able to select the discovered display terminals for wirelessly transmitting appropriate advertisements to the PDTs.

Consider claim 2, and as applied to claim 1 above, Nurcahya et al., as modified by Chang et al., show and disclose the claimed method, further comprising

discovering said available alternate display devices capable of receiving the content according to a discovery protocol (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0136-0137 which disclose a plurality of discovery protocols, such as Bluetooth, HAVi, Jini, Salutation, Service Location Protocol, and Universal Plug and Play, etc.).

Consider **claim 11**, and **as applied to claim 2 above**, Nurcahya et al., as modified by Chang et al., further disclose the claimed method, wherein the discovery protocol is the universal plug and play (UPnP) protocol (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0136-0137 which disclose a plurality of discovery protocols, such as Bluetooth, HAVi, Jini, Salutation, Service Location Protocol, and Universal Plug and Play, etc.).

Consider claim 12, and as applied to claim 1 above, Nurcahya et al., as modified by Chang et al., disclose the claimed method, further comprising specifying via the user interface the content to be transmitted according to said transmitting to the selected at least one alternate display device (in Nurcahya et al. reference, paragraph 0009 which discloses a method for selecting at least one of a plurality of different advertisements (shown in Fig. 5 as a database 52) to be remotely reviewed by users; paragraph 0019 which further describes a user interface 51 (shown in Fig. 5) by which the advertisement server 40 allows controlled advertising on the network 18 to each of the plurality of portable data terminals 20, by having the advertising software select,

launch, and initiate the advertisements at all or selected ones of the plurality of PDTs 20).

Consider **claim 16**, and **as applied to claim 1 above**, Nurcahya et al., as modified by Chang et al., disclose the claimed method, further comprising a computer readable medium comprising computer executable modules having computer executable instructions for carrying out the method of claim 1 (in Nurcahya et al. reference, claims 16-18 which disclose advertising software, having computer executable instruction stored on a computer readable medium, for carrying out the method of claim 1; paragraph 0020 describes the same details).

Consider **claim 17**, and **as applied to claim 1 above**, Nurcahya et al., as modified by Chang et al., disclose the claimed method, including computing device comprising means for performing the method of claim 1 (in Nurcahya et al. reference, Fig. 1, advertising server 40 including advertising software 45 with other means shown in Figs. 3 and 5 for performing the method of claim 1; paragraphs 0019, 0026-0028 also disclose the means available to server 40 for performing the method of claim 1).

Consider claim 18, and as applied to claim 1 above, Nurcahya et al., as modified by Chang et al., disclose the claimed method, including a modulated data signal carrying computer executable instructions for performing the method of claim 1 (claims 16-18 which disclose advertising software, having computer executable

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instruction stored on a computer readable medium, for carrying out the method of claim 1; paragraph 0020 describes the same details).

Consider claim 19, Nurcahya et al. show and disclose a computer readable medium comprising computer executable instructions for implementing a method of interfacing with a user of a computing device having content capable of being projected to other computing devices (claims 16-18 that disclose a computer readable medium comprising computer executable instructions; abstract that describes wirelessly projecting content (advertisements and promotional material for products and services) from an advertisement server 40 (shown in Fig. 1) to a plurality of portable data terminals (PDT) 20 with displays 22; paragraph 0019 discloses the same details; Fig. 5, advertiser computer 50 with user interface 51 and advertisement database 52 that includes content capable of being projected to other computing devices (PDTs 20 shown in Figs. 2-3)), the method comprising: displaying a user interface on the computing device (Fig. 5 that shows user interface 51

However, Nurcahya et al. do not specifically disclose discovering whether at least one alternate display device is capable of receiving the content according to the at least one projection discovery protocol; and if, at least one alternate display device is capable of receiving the content, displaying at least one indication of the at least one alternate display device via the user interface.

on the advertiser (user) computer; paragraph 0028 describes the same details).

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In the same field of endeavor, Chang et al., show and disclose the claimed computer readable medium comprising computer executable instructions for implementing the claimed method, further comprising discovering whether at least one alternate display device is capable of receiving the content according to the at least one projection discovery protocol (Fig. 5, discovery process step 502; paragraphs 0132-0140 further disclose the details of the claimed method step); and if, at least one alternate display device is capable of receiving the content, displaying at least one indication of the at least one alternate display device via the user interface (flowchart of Fig. 6, that shows providing a list of discovered output devices to user in step 600; Fig 8B that shows a Graphic User Interface 810 displaying discovered printer devices; paragraph 0196 and 0199 disclose the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also be a television, monitor, and projectors, etc.).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a discovery protocol to discover whether at least one alternate display device is capable of receiving the content according to the at least one projection discovery protocol; and if, at least one alternate display device is capable of receiving the content, displaying at least one indication of the at least one alternate display device via the user interface, as taught by Chang et al., in the method of Nurcahya et al., so that the advertising server can wirelessly project advertisements on the discovered and selected display terminals.

Consider claim 20, and as applied to claim 19 above, Nurcahya et al., as modified by Chang et al., disclose the claimed computer readable medium, wherein the method further including selecting the content via the user interface (in Nurcahya et al. reference, paragraph 0009 which discloses a method for selecting at least one of a plurality of different advertisements (shown in Fig. 5 as a database 52) to be remotely reviewed by users; paragraph 0019 which further describes a user interface 51 (shown in Fig. 5) by which the advertisement server 40 allows controlled advertising on the network 18 to each of the plurality of portable data terminals 20, by having the advertising software select, launch, and initiate the advertisements at all or selected ones of the plurality of PDTs 20).

Consider claim 21, and as applied to claim 19 above, Nurcahya et al., as modified by Chang et al., further show and disclose the claimed computer readable medium, wherein said discovering includes discovering whether the at least one alternate display device is capable of receiving the content according to the at least one projection discovery protocol (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0136-0137 which disclose a plurality of discovery protocols, such as Bluetooth, HAVi, Jini, Salutation, Service Location Protocol, and Universal Plug and Play, etc.).

Consider claim 22, and as applied to claim 19 above, Nurcahya et al., as modified by Chang et al., further show and disclose the claimed computer readable

medium, wherein said discovering includes discovering at least one Internet Protocol (IP) address corresponding to the at least one alternate display device (in Chang et al. reference, Fig. 5, step 502 that shows output device (display or projection) discovery process; Fig. 6 that shows a user authentication process in step 604; Fig. 8B that shows the result of the device discovery process in block 810 (a graphic user interface); paragraphs 0094, 0132-0136 and 0183 describe the details of the device discovery and the process of user authentication, including determining the IP address of the information apparatus 100, either manually from the user, or automatically by the output controller 120 or output device 140 (Figs. 1 and 4A-4F)).

Consider claim 23, and as applied to claim 19 above, Nurcahya et al., as modified by Chang et al., further disclose the claimed computer readable medium, wherein said discovering includes detecting at least one alternate display device advertising its presence according to Universal Plug and Play (UPnP) protocol(s) (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0136-0137 which disclose a plurality of discovery protocols, such as Bluetooth, HAVi, Jini, Salutation, Service Location Protocol, and Universal Plug and Play, etc., wherein a display device may advertise its presence according to Universal Plug and Play (UPnP) protocol).

Consider claim 24, and as applied to claim 19 above, Nurcahya et al., as modified by Chang et al., show and disclose the claimed computer readable medium,

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with the selected indication).

further including selecting via the user interface an indication of said at least one indication (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered display devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details); and controlling a characteristic of the alternate display device associated with the selected indication (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered display devices with a down-pointing arrow for "more information" for a selected device and right pointing arrow 814 for additional service and device control options, such as quality of service control and access restriction, etc.; paragraph 0062 which discloses that an application such as an output manager 308 residing in the information apparatus 100 may install and configure the uploaded components or data, thereby disclosing controlling a characteristic of the alternate display device associated

Consider **claim 30**, Nurcahya et al., as modified by Chang et al., disclose a computer readable medium comprising computer executable instructions for implementing a method of interfacing with a user of a computing device having a plurality of displays capable of displaying separate content, effectively disaggregating the display of the computing device (in Nurcahya et al. reference, claims 16-18; abstract that describes a method used by an advertiser computer 50 (see Fig. 5) for wirelessly projecting content (advertisements and promotional material for products and services

contained in an advertisement database 52) from an advertisement server 40 (shown in Fig. 1) to a plurality of portable data terminals (PDT) 20 with displays 22, such as those in grocery store, book store and stadium (shown in Fig. 1), thereby effectively disaggregating the display of the computing device; paragraphs 0019, 0022 and 0028 disclose the same details), the method comprising:

displaying a user interface on a first display of the plurality of displays of the computing device (in Chang et al. reference, flowchart of Fig. 6, that shows providing a list of discovered output devices to user in step 600; Fig 8B that shows a Graphic User Interface 810 displaying discovered printer devices; paragraph 0196 and 0199 disclose the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also be a television, monitor, and projectors, etc.);

discovering whether at least one alternate display device is capable of receiving content associated with at least one portion of one of the plurality of displays of the computing device according to at least one extension protocol (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0132-0140 further disclose the details of the claimed method step); and

if, according to said discovering, at least one alternate display device is capable of receiving the content, displaying at least one indication of the at least one alternate display device via the user interface (flowchart of Fig. 6, that shows providing a list of discovered output devices to user in step 600; Fig 8B that shows a Graphic User Interface 810 displaying discovered printer devices; paragraph 0196 and 0199 disclose

the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also be a television, monitor, and projectors, etc.).

Consider claim 35, and as applied to claim 30 above, Nurcahya et al., as modified by Chang et al., further disclose the claimed computer readable medium, wherein said discovering includes discovering whether at least one alternate display device is capable of receiving said at least one portion of the display of the computing device according to the at least one extension protocol (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0134, 0136 further disclose the details of the claimed method).

Consider claim 36, and as applied to claim 30 above, Nurcahya et al., as modified by Chang et al., further show and disclose the claimed computer readable medium, wherein said discovering includes discovering at least one Internet Protocol (IP) address corresponding to the at least one alternate display device (in Chang et al. reference, Fig. 5, step 502 that shows output device (display or projection) discovery process; Fig. 6 that shows a user authentication process in step 604; Fig. 8B that shows the result of the device discovery process in block 810 (a graphic user interface); paragraphs 0094, 0132-0136 and 0183 describe the details of the device discovery and the process of user authentication, including determining the IP address of the

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information apparatus 100, either manually from the user, or automatically by the output controller 120 or output device 140 (Figs. 1 and 4A-4F)).

Consider claim 37, and as applied to claim 30 above, Nurcahya et al., as modified by Chang et al., further disclose the claimed computer readable medium, wherein said discovering includes detecting at least one alternate display device advertising its presence according to Universal Plug and Play (UPnP) protocol(s) (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0136-0137 which disclose that service devices can periodically announce or advertise the services they provide; the information apparatus 100 "listens to" such announcements and identifies the service it needs).

Consider claim 38, and as applied to claim 30 above, Nurcahya et al., as modified by Chang et al., show and disclose the claimed computer readable medium, further including selecting via the user interface an indication of said at least one indication (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered display devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details); and controlling a characteristic of the alternate display device associated with the selected indication (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered display devices with a down-pointing arrow for "more information" for a

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selected device and right pointing arrow 814 for additional service and device control options, such as quality of service control and access restriction, etc.; paragraph 0062 which discloses that an application such as an output manager 308 residing in the information apparatus 100 may install and configure the uploaded components or data, thereby disclosing controlling a characteristic of the alternate display device associated with the selected indication).

Claims 3, 4, 25, 39, 41, 42, 58-60 and 62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Reisman (U.S. Patent Application Publication # 2003/0229900 A1).

Consider **claim 3**, and **as applied to claim 1 above**, Nurcahya et al., as modified by Chang et al., show and disclose the claimed method, except wherein said transmitting includes establishing a remote session, via a remoting protocol, between the computing device and the selected at least one alternate display device.

In the same field of endeavor, Reisman discloses the claimed method, wherein said transmitting includes establishing a remote session, via a remoting protocol, between the computing device and the selected at least one alternate display device (paragraphs 0051, 0105, 0479 and 0480 that disclose establishing a remote session,

via a remoting protocol (RDP or Citrix ICA), between the computing device and the selected at least one alternate display device).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to establish a remote session, via a remoting protocol, between the computing device and the selected at least one alternate display device, as taught by Reisman, in the method of Nurcahya et al., so that the advertising server can wirelessly project advertisements on the selected remote display terminals.

Consider claim 4, and as applied to claim 3 above, Nurcahya et al., as modified by Chang et al. and Reisman, further disclose the claimed method, wherein the remoting protocol is the remote desktop protocol and the remote session is a terminal services (TS) session (in Reisman reference, paragraph 0105 that describes the remote protocol as Windows Remote Desktop Protocol (RDP) or Citrix Independent Computing Architecture (ICA), and remote session as a Windows Terminal Service (WTS)).

Consider claim 25, and as applied to claim 24 above, Nurcahya et al., as modified by Chang et al. and Reisman, further disclose the claimed computer readable medium, wherein said controlling includes controlling according to Remote Desktop Protocol (RDP) (in Reisman reference, paragraph 0105 that describes the remote protocol as Windows Remote Desktop Protocol (RDP) or Citrix Independent Computing Architecture (ICA)).

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Consider claim 39, and as applied to claim 38 above, Nurcahya et al., as modified by Chang et al. and Reisman, further disclose the claimed computer readable medium, wherein said controlling includes controlling according to Remote Desktop Protocol (RDP) (in Reisman reference, paragraph 0105 that describes the remote controlling protocol as Windows Remote Desktop Protocol (RDP) or Citrix Independent Computing Architecture (ICA)).

Consider claim 41, Nurcahya et al. show and disclose a computer readable medium comprising computer executable instructions for carrying out a method for transmitting content from a first computing device to at least one second computing device for manipulation or rendering (abstract that describes wirelessly projecting content (advertisements and promotional material for products and services) from an advertisement server 40 (shown in Fig. 1) to a plurality of portable data terminals (PDT) 20 with displays 22; paragraph 0019 discloses the same details), the method comprising:

transmitting content to the device according to a protocol associated with the remote computing session (Fig. 4, step 63 that shows transmitting preview to selected PDTs through network (the Internet 18 in Fig. 1); paragraph 0029 describes the same details).

However, Nurcahya et al. do not specifically disclose discovering at least one second device available to receive content from the first computing device comprising the at least one computer readable medium, the at least one second device including at

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least one of (A) at least one available wireless projector and (B) at least one available other computer; displaying via a user interface a list reflecting the at least one second device discovered as available according to said discovering; selecting a device from the list; and establishing a remote computing session with the device.

In the same field of endeavor, Chang et al. show and disclose the claimed computer readable medium, comprising computer executable instructions for carrying out a method including discovering at least one second device available to receive content from the first computing device comprising the at least one computer readable medium, the at least one second device including at least one of (A) at least one available wireless projector and (B) at least one available other computer (Fig. 5, discovery process step 502; paragraphs 0132, 0136 further disclose the details of the claimed method step; paragraph 0094 further disclosing that the output device 140 (shown in Fig. 1) may also be a display device such as a television, a monitor, or a projector, capable of displaying images or video); displaying via a user interface a list reflecting the at least one second device discovered as available according to said discovering (flowchart of Fig. 6, that shows providing a list of discovered output devices to user in step 600; Fig 8B that shows a Graphic User Interface 810 displaying discovered printer devices; paragraph 0196 and 0199 disclose the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also be a television, monitor, or a projector, etc.); and

selecting a device from the list (Fig 8B; Graphic User Interface 810 showing discovered printer devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to discover at least one second device available to receive content from the first computing device comprising the at least one computer readable medium, the at least one second device including at least one of (A) at least one available wireless projector and (B) at least one available other computer; display via a user interface a list reflecting the at least one second device discovered as available according to said discovering; and select a device from the list, as taught by Chang et al. in the computer readable medium of Nurcahya et al., so that the advertiser user is able to select the discovered display terminals for wirelessly transmitting appropriate advertisements to the PDTs.

However, Nurcahya et al., as modified by Chang et al., do not specifically describe establishing a remote computing session with the device.

In the same field of endeavor, Reisman discloses the claimed computer readable medium, comprising computer executable instructions for carrying out a method including establishing a remote computing session with the device (paragraphs 0051, 0105, 0479 and 0480 that disclose establishing a remote session, via a remoting protocol (RDP or Citrix ICA), between the computing device and the selected display device).

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to establish a remote computing session with the device, as taught by Reisman, in the computer readable medium of Nurcahya et al., as modified by Chang et al., so that the advertising server can wirelessly project advertisements on the selected remote display terminals.

Consider claim 42, and as applied to claim 41 above, Nurcahya et al., as modified by Chang et al. and Reisman, show and disclose the claimed computer readable medium, comprising computer executable instructions for carrying out a method further including configuring via the user interface a setting, wherein said setting governs at least one characteristic of the remote computing session established according to said establishing (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered display devices with a down-pointing arrow for "more information" for a selected device and right pointing arrow 814 for additional service and device control options, such as quality of service control and access restriction, etc.; paragraph 0062 which discloses that an application such as an output manager 308 residing in the information apparatus 100 may install and configure the uploaded components or data, thereby disclosing controlling a characteristic of the alternate display device associated with the selected indication).

Consider **claim 58**, Nurcahya et al. show and disclose a server computing device for projecting content from the server computing device to client display device(s)

(abstract that describes wirelessly projecting content (advertisements and promotional material for products and services) from an advertisement server 40 (a server computing device shown in Fig. 1) to a plurality of portable data terminals (PDT, acting as client display devices) 20 with displays 22; paragraph 0019 discloses the same details), comprising:

a remote session component to package content for projection and to transmit packaged content to selected client display devices (Fig. 4, step 63 that shows transmitting preview to selected PDTs through network (the Internet 18 in Fig. 1); paragraph 0029 describes the same details); and

a user interface component for a selection of content (paragraph 0009 which discloses selecting at least one of a plurality of different advertisements (shown in Fig. 5 as a database 52) to be remotely reviewed by users; paragraph 0019 which further describes a user interface 51 (shown in Fig. 5) by which the advertisement server 40 allows controlled advertising on the network 18 to each of the plurality of portable data terminals 20, by having the advertising software select, launch, and initiate the advertisements at all or selected ones of the plurality of PDTs 20).

However, Nurcahya et al. do not specifically disclose a discovery component that operates according to a discovery protocol to discover and control available client display devices capable of receiving the content; a remote session component that operates according to at least one remoting protocol to establish remote sessions between the server computing device and available client display devices; and a user interface component for at least one of (A) displaying at least one indication

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corresponding to the available client display devices discovered by and capable of being controlled by said discovery component and (B) receiving a selection of an indication of target client display device and a selection of content, whereby said remote session component creates a remote session for said target client display device and said server computing device.

In the same field of endeavor, Chang et al. show and disclose the claimed server computing device, comprising a discovery component that operates according to a discovery protocol to discover and control available client display devices capable of receiving the content (Fig. 5, discovery process step 502; paragraphs 0132, 0136 further disclose the details of the claimed server computing device comprising an information apparatus 100 (a discovery component) that operates according to a discovery protocol to discover and control available client display devices (output devices 140) capable of receiving the content; paragraph 0094 further disclosing that the output device 140 (shown in Fig. 1) may also be a display device such as a television, a monitor, or a projector, capable of displaying images or video; paragraph 0062 that discloses an output manager 308 residing in the information apparatus 100 that may install and configure the uploaded components or data); and a user interface component for at least one of displaying at least one indication corresponding to the available client display devices discovered by and capable of being controlled by said discovery component (flowchart of Fig. 6, that shows providing a list of discovered output devices to user in step 600; Fig 8B that shows a Graphic User Interface 810 displaying discovered printer devices; paragraph 0196 and 0199

disclose the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also be a television, monitor, or a projector, etc.); and

receiving a selection of an indication of target client display device (Fig 8B; Graphic User Interface 810 showing discovered printer devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a discovery component that operates according to a discovery protocol to discover and control available client display devices capable of receiving the content; display via a user interface a list reflecting the at least one second device discovered as available according to said discovering; a user interface component for at least one of displaying at least one indication corresponding to the available client display devices discovered by and capable of being controlled by said discovery component, and receiving a selection of an indication of target client display device, as taught by Chang et al. in the server computing device of Nurcahya et al., so that the advertiser user is able to select the discovered display terminals for wirelessly transmitting appropriate advertisements to the PDTs.

However, Nurcahya et al., as modified by Chang et al., do not specifically describe establishing a remote computing session with the device.

In the same field of endeavor, Reisman discloses the claimed server computing device, comprising a remote session component that operates according to at least one

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remoting protocol to establish remote sessions between the server computing device and available client display devices (paragraphs 0051, 0105, 0479 and 0480 that disclose establishing a remote session, via a remoting protocol (RDP or Citrix ICA), between the computing device and the selected display device).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to establish a remote session component that operates according to at least one remoting protocol to establish remote sessions between the server computing device and available client display devices, as taught by Reisman, in the server computing device of Nurcahya et al., as modified by Chang et al., so that the advertising server can wirelessly project advertisements on the selected remote display terminals.

Consider claim 59, and as applied to claim 58 above, Nurcahya et al., as modified by Chang et al. and Reisman, further disclose the claimed server computing device, wherein said discovery component discovers client display devices that are advertising their availability according to the discovery protocol (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0136-0137 which disclose that service devices can periodically announce or advertise the services they provide; the information apparatus 100 "listens to" such announcements and identifies the service it needs).

Consider claim 60, and as applied to claim 58 above, Nurcahya et al., as modified by Chang et al. and Reisman, further disclose the claimed server computing device, wherein said at least one remoting protocol includes the remote desktop protocol and said remote sessions are terminal services (TS) sessions (in Reisman reference, paragraph 0105 that describes the remote protocol as Windows Remote Desktop Protocol (RDP) or Citrix Independent Computing Architecture (ICA), and remote session as a Windows Terminal Service (WTS)).

Consider claim 62, and as applied to claim 58 above, Nurcahya et al., as modified by Chang et al. and Reisman, further disclose the claimed server computing device, wherein the discovery protocol is the universal plug and play (UPnP) protocol (in Chang et al. reference, Fig. 5, discovery process step 502; paragraphs 0136-0137 which disclose a plurality of discovery protocols, such as Bluetooth, HAVi, Jini, Salutation, Service Location Protocol, and Universal Plug and Play, etc.).

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of

Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in

view of Strunk et al. (U.S. Patent Application Publication # 2003/0078840 A1).

Consider **claim 5**, and **as applied to claim 1 above**, Nurcahya et al., as modified by Chang et al., disclose the claimed method, except further comprising:

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designating at least one portion of the content to be hidden when rendered on the selected at least one alternate display device.

In the same field of endeavor, Strunk et al. show and disclose the claimed method, further comprising designating at least one portion of the content to be hidden when rendered on the selected at least one alternate display device (Figs. 1A and 2 that show a collection 28 of several poster navigation controls 32-39B; paragraphs 58, 71 and 76 and claim 16 describe the details corresponding to the claimed method; paragraph 65, lines 8-11 disclose that while a transmitted poster may be rendered in the display area 20, the transmitted control buttons can be exposed or hidden based upon the contents of a Playlist and/or based upon commands encoded in the poster image currently being displayed).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to designate at least one portion of the content to be hidden when rendered on the selected at least one alternate display device, as taught by Strunk et al., in the method of Nurcahya et al., as modified by Chang et al., so as to provide access to the content navigation controls only when necessary.

Claims 6, 9, 10, 26-28 and 63-73 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Microsoft in Education (Collaborating with others using NetMeeting, 1999 Microsoft Educator Tutorial Series).

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Consider **claim 6**, and **as applied to claim 1 above**, Nurcahya et al., as modified by Chang et al., disclose the claimed method, except wherein said transmitting includes transmitting additional content to be rendered on the selected at least one alternate display device when rendering the content.

In the same field of endeavor, Microsoft Educator Tutorial Series discloses the claimed method, wherein said transmitting includes transmitting additional content to be rendered on the selected at least one alternate display device when rendering the content (page 8, paragraph 2 (marked as item 5) which describes a "Remote Pointer On" that acts as a laser pointer to pinpoint area of interest on a collaboration whiteboard shown in the figure on page 7; the shape and the position of the laser pointer is transmitted as additional content along with the whiteboard content and displayed on the selected remote display).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include transmitting additional content to be rendered on the selected at least one alternate display device when rendering the content, as taught by Microsoft Educator Tutorial Series, in the method of Nurcahya et al., as modified by Chang et al., so as to draw the attention of the audience to the specific point under discussion.

Consider claim 9, and as applied to claim 1 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further disclose the

claimed method, wherein said transmitting includes:

transmitting a request to transmit content to an alternate display device of the selected at least one alternate display device (in Microsoft Educator Tutorial Series reference for a NetMeeting, the window labeled "New Call" on page 3 that enables a transmitting device to transmit a request for transmitting content to a selected receiving device which is being called; steps 1-3 listed in the section "To place a call" on page 4 disclose the same details); and waiting for a response from the alternate display device authorizing the transmission of

content according to said transmitting (in Microsoft Educator Tutorial Series reference, page 4, steps 4-5 in the section "To place a call", that disclose waiting for an "Accept/Reject" button click response from the receiving device authorizing the transmission of content according to said transmitting).

Consider claim 10, and as applied to claim 1 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further disclose the claimed method, wherein the content is substantially simultaneously displayed on the selected at least one alternate display device in response to said transmitting (in Microsoft Educator Tutorial Series reference for a NetMeeting, page 2, section "Before You Begin", lines 1-5, which disclose that the NetMeeting is a synchronous online collaboration and communication method that happens in "real time", thereby teaching that the content is substantially simultaneously displayed on the selected receiving display device in response to said transmitting).

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Consider claim 26, and as applied to claim 19 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further disclose the claimed computer readable medium, wherein the method further including: selecting via the user interface an indication of said at least one indication (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered display devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details); and creating a remoting connection to the alternate display device associated with the selected indication (in Microsoft Educator Tutorial Series reference for a NetMeeting, the window labeled "New Call" on page 3 that enables creating a remote connection to a selected display device associated with the selected indication (address of the computer to call); steps 1-3 listed in the section "To place a call" on page 4 disclose the same details).

Consider claim 27, and as applied to claim 26 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further disclose the claimed computer readable medium, wherein the method further including: transmitting the content to the alternate display device associated with the selected indication via the remoting connection (in Nurcahya et al. reference, Fig. 4, step 63 that shows transmitting preview to selected PDTs through network (the Internet 18 in Fig. 1); paragraph 0029 describes the same details).

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Consider claim 28, and as applied to claim 26 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further disclose the claimed computer readable medium, wherein said creating includes at least one of (A) creating a Terminal Services session with the alternate display device and (B) creating a remoting connection with universal plug and play (UPnP) technology (in Chang et al. reference, paragraphs 0136-0137 which disclose a plurality of discovery protocols, such as Bluetooth, HAVi, Jini, Salutation, Service Location Protocol, and Universal Plug and Play, etc. that may be used to create a remote connection with the display device).

Consider **claim 63**, Nurcahya et al. show and disclose a method for connecting a computing device to an alternate display device in order to project content from the computing device to the alternate display device (abstract that describes a method for wirelessly connecting an advertisement server 40 (shown in Fig. 1) to project content (advertisements and promotional material for products and services) to a plurality of portable data terminals (PDT) 20 with displays 22; paragraph 0019 discloses the same details), comprising:

selecting content to be projected, whereby the selected content is to be projected to the selected alternate display device (paragraph 0009 which discloses selecting at least one of a plurality of different advertisements (shown in Fig. 5 as a database 52) to be remotely reviewed by users; paragraph 0019 which further describes a user interface 51 (shown in Fig. 5) by which the advertisement server 40 allows controlled advertising on

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the network 18 to each of the plurality of portable data terminals 20, by having the advertising software select, launch, and initiate the advertisements at all or selected ones of the plurality of PDTs 20).

However, Nurcahya et al. do not specifically disclose a method for discovering according to a discovery protocol at least one alternate display device capable of receiving and rendering projected content; selecting an alternate display device from said at least one alternate display device, and establishing a connection between the computing device and the selected alternate display device.

In the same field of endeavor, Chang et al. show and disclose the claimed method for discovering according to a discovery protocol at least one alternate display device capable of receiving and rendering projected content (Fig. 5, discovery process step 502; paragraphs 0132, 0136 further disclose the details of the claimed method comprising an information apparatus 100 (a discovery component) that operates according to a discovery protocol to discover and control available client display devices (output devices 140) capable of receiving the content; paragraph 0094 further disclosing that the output device 140 (shown in Fig. 1) may also be a display device such as a television, a monitor, or a projector, capable of displaying images or video); and selecting an alternate display device from said at least one alternate display device (Fig 8B; Graphic User Interface 810 showing discovered printer devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details).

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a method for method for discovering according to a discovery protocol at least one alternate display device capable of receiving and rendering projected content, and selecting an alternate display device from said at least one alternate display device, as taught by Chang et al. in the method of Nurcahya et al., so that the advertiser user is able to select the discovered display terminals for wirelessly transmitting appropriate advertisements to the PDTs.

However, Nurcahya et al., as modified by Chang et al., do not specifically describe establishing a connection between the computing device and the selected alternate display device.

In the same field of endeavor, Microsoft Educator Tutorial Series discloses the claimed method for establishing a connection between the computing device and the selected alternate display device (the window labeled "New Call" on page 3 that enables creating a remote connection to a selected display device; steps 1-3 listed in the section "To place a call" on page 4 disclose the same details).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to establish a connection between the computing device and the selected alternate display device, as taught by Microsoft Educator Tutorial Series, in the method of Nurcahya et al., as modified by Chang et al., so that the advertising server can wirelessly project advertisements on the selected remote display terminals.

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Consider claim 64, and as applied to claim 63 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed method, wherein said establishing a connection includes: generating a ticket by a remote connector component of the computing device (the window labeled "New Call" on page 3 that generates a connection request packet (a ticket) for creating a remote connection to a selected display device; steps 1-3 listed in the section "To place a call" on page 4 disclose the same details); transmitting the ticket to the selected alternate display device (step 3 listed in the section "To place a call" on page 4, wherein when the call initiating party clicks on the "Call" button (shown in the window labeled "New Call" on page 3), the call request packet is transmitted to the selected alternate display device); and receiving a response to said transmitting by the remote connector component (in Microsoft Educator Tutorial Series reference, page 5, steps 1-2 in the section "To receive a call", that disclose "Accept/Reject" buttons, such that when the receiving party receives the connection request packet and clicks on the "Accept" button, a response from the receiving device authorizing the transmission of content is sent to the connection requesting party).

Consider claim 65, and as applied to claim 64 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed method, wherein the ticket includes at least one of (A) information about how to connect to the computing device and (B) information about a mode in which to connect (in

Microsoft Educator Tutorial Series, page 8, section "Sharing Applications", step 4, which discloses choosing "Share Application" mode from the Tools menu before connecting to place a call).

Consider claim 66, and as applied to claim 65 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed method, wherein said mode includes at least one of a projection mode, an extended desktop mode and a mode for a specific application (in Microsoft Educator Tutorial Series, page 8, section "Sharing Applications", mode from the Tools menu before connecting to place a call).

Consider **claim 67**, and **as applied to claim 63 above**, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed method, further comprising:

transmitting said selected content to said selected alternate display device via said connection (in Microsoft Educator Tutorial Series, page 6, section "To conduct chat sessions" and the "Chat" window content; steps 1-3 include a "Send" button and a "Send to:" dropdown list that enables transmitting the entered window content to the selected alternate display device via said connection).

Consider claim 68, and as applied to claim 63 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed

method, wherein said discovering includes detecting at least one advertisement of a capability to receive projected content from an alternate display device (in Chang et al. reference, paragraph 0136 that lists three different scenarios for the discovery process 502, the second of the three scenarios discloses that all service devices periodically or continuously announce or advertise the services they provide; the computing device listens to such announcements and identifies the service it needs).

Consider claim 69, and as applied to claim 63 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed method, wherein said discovering includes issuing a search request for a particular type of device via the discovery protocol whereby all devices of the particular device that receive the search request respond by sending a message to said computing device (in Chang et al. reference, paragraph 0136 that lists three different scenarios for the discovery process 502, the first of the three scenarios discloses that the information apparatus 100 (computing device) broadcasts a service request, for example, printing through wired or wireless signals; wherein service devices, such as output devices 140 (in Fig. 1) listen to such signals and respond if they can provide the requested service).

Consider claim 70, and as applied to claim 63 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed method, further including, after discovering an alternate display device of the at least one alternate display device, downloading to said computing device a service document

of the alternate display device (in Chang et al. reference, Fig. 5, step 514; paragraphs 0149-0157 which disclose service negotiation step to determine the suitability of the discovered device for performing the task at hand).

Consider claim 71, and as it applies to claim 63 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further show and disclose a computer readable medium comprising computer executable modules having computer executable instructions for carrying out the method of claim 63 (claims 16-18 in Nurcahya et al. reference, along with the cited figures, paragraphs and lines in claim 63).

Consider claim 72, and as it applies to claim 63 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further show and disclose a computing device comprising means for performing the method of claim 43 (system claims 1-15 in Nurcahya et al. reference, along with the cited figures, paragraphs and lines in claim 63).

Consider claim 73, and as it applies to claim 63 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further show and disclose a modulated data signal carrying computer readable medium carrying computer executable instructions for performing the method of claim 43 (claims 16-18 in

Nurcahya et al. reference, along with the cited figures, paragraphs and lines in claim 63).

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of

Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in

view of Microsoft in Education (Collaborating with others using NetMeeting, 1999

Microsoft Educator Tutorial Series) and further in view of Quillen et al. (U.S. Patent

Publication # 6,094,189).

Consider **claim 7**, and **as applied to claim 6 above**, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed method, except wherein said additional content is input to the computing device to be displayed as an illuminated point over the content being rendered.

In the same field of endeavor, Quillen et al. show and disclose the claimed method, wherein said additional content is input to the computing device to be displayed as an illuminated point over the content being rendered (Figs. 1 and 2 that show the details of a visual echo remote laser pointer that allows a remotely located server to point to items within a viewing field of a camera, wherein the laser pointer is operated at a remote site with a computer controlled mouse, the shape and the spatial position of the laser pointer being transmitted wirelessly and pointing (as an illuminated point) to a scene displayed by a video camera; column 1, lines 49-67 disclose the same details).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include said additional content as input to the computing device to be displayed as an illuminated point over the content being rendered, as taught by Quillen et al., in the method of Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, so as to draw attention of the recipient to the specific display location under review.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of

Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in

view of Microsoft in Education (Collaborating with others using NetMeeting, 1999

Microsoft Educator Tutorial Series) and further in view of Quillen et al. (U.S. Patent

Publication # 6,094,189) and further in view of Rosen et al. (U.S. Patent Publication

6,065,057).

Consider claim 8, and as applied to claim 7 above, Nurcahya et al., as modified by Chang et al., Microsoft Educator Tutorial Series and Quillen et al., further disclose the claimed method, wherein said additional content is mouse input of the computing device to be displayed on the display of said at least one alternate display device (in Quillen et al. reference, Figs. 1 and 2 that show the details of a visual echo remote laser pointer that allows a remotely located server to point to items within a viewing field of a camera, wherein the laser pointer is operated at a remote site with a

computer controlled mouse, the shape and the spatial position of the laser pointer being transmitted wirelessly and pointing to a scene displayed by a video camera; column 1, lines 49-67 disclose the same details).

However, Nurcahya et al., as modified by Chang et al., Microsoft Educator

Tutorial Series and Quillen et al., do not specifically disclose that the additional content
is to be displayed as any of (A) a colored dot, (B) a laser pointer and (C) a pointer with a
trail.

In the same field of endeavor, Rosen et al. show and disclose the claimed method, wherein said additional content is mouse input of the computing device to be displayed as any of (A) a colored dot, (B) a laser pointer and (C) a pointer with a trail on the display of said at least one alternate display device (Fig. 8, modified pointer 44a; column 3, lines 54-60 which disclose a means for enabling cursors and pointers to change color, shape, etc., when the display terminal, which has a network connection, receives certain instructions from a remote or server computer attached to the network).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to display said additional content, i.e. mouse input of the computing device, as a colored dot, as taught by Rosen et al., in the method of Nurcahya et al., as modified by Chang et al., Microsoft Educator Tutorial Series and Quillen et al., so as to draw attention of the recipient to the specific display location under review.

Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Reisman (U.S. Patent Application Publication # 2003/0229900 A1) and further in view of Brown et al. (U.S. Patent Application Publication # 2003/0023681 A1).

Consider claim 13, and as applied to claim 3 above, Nurcahya et al., as modified by Chang et al. and Reisman, show and disclose the claimed method, except further including, for each remote session between the computing device and the selected at least one alternate display device, displaying via the user interface an indication of the signal strength associated with the remote session.

In the same field of endeavor, Brown et al. show and disclose the claimed method, further including, for each remote session between the computing device and the selected at least one alternate display device, displaying via the user interface an indication of the signal strength associated with the remote session (Figs. 4-5, that show Device Information 78, 80 and 86 on a user interface, that includes an indication of the signal strength (75% in item 78 of Fig. 4) associated with the remote session; paragraph 0062 discloses the same details).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to display via the user interface an indication of the signal strength associated with the remote session, as taught by Brown et al., in the

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method of Nurcahya et al., as modified by Chang et al. and Reisman, so that the transmitting device can determine the quality of service for the receiving device.

Consider claim 14, and as applied to claim 13 above, Nurcahya et al., as modified by Chang et al., Reisman and Brown et al., further show and disclose the claimed method, wherein a predetermined number of levels of signal quality can be shown for each remote session based on at least one of obstructions, distance and data rate to be maintained (in Brown et al. reference, Fig. 4 that shows Device Information 78 that includes an indication of the signal strength (75% of a possible 100 predetermined number of levels of signal quality) associated with the remote session; paragraph 0062 discloses the same details, further disclosing that determining the signal quality will enable a user to determine what types of transmissions will be received by the other device, the speed of communications (data rate), etc.).

Consider claim 15, and as applied to claim 13 above, Nurcahya et al., as modified by Chang et al., Reisman and Brown et al., show and disclose the claimed method, further including storing a file associated with the signal strength of the remote session (in Brown et al. reference, Fig. 5; that shows a user interface 86 for displaying Device Information as depicted in Fig. 6 as a "Device Output Preference" file 90, which includes an indication of the signal strength (items 97, 100) of the remote session; paragraphs 0071 and 0075 disclose the same details).

Claims 29 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Gross (U.S. Patent Application Publication # 2003/0028637 A1).

modified by Chang et al., show and disclose the claimed computer readable medium, wherein the method further including: selecting via the user interface an indication of said at least one indication (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered display devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details).

Consider claim 29, and as applied to claim 19 above, Nurcahya et al., as

However, Nurcahya et al., as modified by Chang et al., do not specifically disclose destructing a remoting connection to the alternate display device associated with the selected indication.

In the same field of endeavor, Gross shows and discloses the claimed computer readable medium, wherein the method further including destructing a remoting connection to the alternate display device associated with the selected indication (Fig. 1, hang-up switch 42; paragraphs 0044-0045 which disclose several implementations of a method to sever or destruct a remote connection to an alternate display device).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a method for destructing a remoting

connection to the alternate display device associated with the selected indication, as taught by Brown et al., in the method of Nurcahya et al., as modified by Chang et al., so as to be able to establish connection to another display without tying up resources no longer needed.

Consider claim 40, and as applied to claim 30 above, Nurcahya et al., as modified by Chang et al., show and disclose the claimed computer readable medium, wherein the method further including: selecting via the user interface an indication of said at least one indication (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered display devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details); and destructing a remoting connection to the alternate display device associated with the selected indication (Fig. 1, hang-up switch 42; paragraphs 0044-0045 which disclose several implementations of a method to sever or destruct a remote connection to an alternate display device).

Claims 31 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Microsoft in Education (Collaborating with others using

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NetMeeting, 1999 Microsoft Educator Tutorial Series) and further in view of Gross (U.S. Patent Application Publication # 2003/0028637 A1).

Consider claim 31, and as applied to claim 30 above, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, disclose the claimed computer readable medium, wherein the method further including: selecting one of the plurality of displays via the user interface (in Nurcahya et al. reference, paragraph 0009 which discloses selecting at least one of a plurality of different advertisements (shown in Fig. 5 as a database 52) to be remotely reviewed by users; paragraph 0019 which further describes a user interface 51 (shown in Fig. 5) by which the advertisement server 40 allows controlled advertising on the network 18 to each of the plurality of portable data terminals 20, by having the advertising software select, launch, and initiate the advertisements at all or selected ones of the plurality of PDTs 20);

selecting via the user interface an indication of said at least one indication (in Chang et al. reference, Fig 8B; Graphic User Interface 810 showing discovered printer devices and a prompt to a user to indicate his or her selection/choice by selecting one device from the displayed list; paragraph 0196 and 0199 disclose the same details); creating a remoting connection to the alternate display device associated with the selected indication (in Microsoft Educator Tutorial Series reference for a NetMeeting, the window labeled "New Call" on page 3 that enables creating a remote connection to a selected display device associated with the selected indication (address of the

computer to call); steps 1-3 listed in the section "To place a call" on page 4 disclose the same details); and

transmitting the display to the alternate display device associated with the selected indication via the remoting connection (in Nurcahya et al. reference, Fig. 4, step 63 that shows transmitting preview to selected PDTs through network (the Internet 18 in Fig. 1); paragraph 0029 describes the same details).

However, Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, do not specifically disclose selecting or transmitting a portion of a display.

In the same field of endeavor, Gross discloses selecting and transmitting a portion of a display (paragraph 0028 which discloses that the video data sent or outputted to the image projection device 18 may be representative of an entire computer screen, a portion of the computer screen, or the content of an application window).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide means for selecting and transmitting a portion of a display, as taught by Gross, in the computer readable medium of Nurcahya et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, so as to be able to focus on the portion of the content under review.

Consider claim 33, and as applied to claim 31 above, Nurcahya et al., as modified by Chang et al., Microsoft Educator Tutorial Series and Gross, disclose the

claimed computer readable medium, wherein said transmitting includes transmitting input received by the at least one portion of the display as a special indication on the alternate display device (in Microsoft Educator Tutorial Series reference, page 8, paragraph 2 (marked as item 5) which describes a "Remote Pointer On" that acts as a laser pointer to pinpoint area of interest on a collaboration whiteboard shown in the figure on page 7; the shape and the position of the laser pointer is transmitted as additional content along with the whiteboard content and displayed on the selected remote display).

Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of

Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in

view of Microsoft in Education (Collaborating with others using NetMeeting, 1999

Microsoft Educator Tutorial Series) and further in view of Gross (U.S. Patent

Application Publication # 2003/0028637 A1) and further in view of Reisman (U.S.

Patent Application Publication # 2003/0229900 A1).

Consider **claim 32**, and **as applied to claim 31 above**, Nurcahya et al., as modified by Chang et al., Microsoft Educator Tutorial Series and Gross, disclose the claimed computer readable medium, except wherein said creating includes creating a Terminal Services session with the alternate display device.

In the same field of endeavor, Reisman discloses the claimed computer readable medium, wherein said creating includes creating a Terminal Services session with the alternate display device (in Reisman reference, paragraph 0105 that describes creating a remote session as a Windows Terminal Service (WTS) session with the display device).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to create a Terminal Services session with the alternate display device, as taught by Reisman, in the computer readable medium of Nurcahya et al., as modified by Chang et al., Microsoft Educator Tutorial Series and Gross, so as to be able to communicate and transfer the content to be displayed on the remote display.

Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of

Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in

view of Microsoft in Education (Collaborating with others using NetMeeting, 1999

Microsoft Educator Tutorial Series) and further in view of Gross (U.S. Patent

Application Publication # 2003/0028637 A1) and further in view of Rosen et al. (U.S.

Patent Publication # 6,065,057).

Consider claim 34, and as applied to claim 33 above, Nurcahya et al., as modified by Chang et al., Microsoft Educator Tutorial Series and Gross, further disclose

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the claimed computer readable medium, wherein said transmitting includes transmitting pointer input received by the at least one portion of one of the plurality of displays as a colored mark on the alternate display device (in Microsoft Educator Tutorial Series reference, page 8, paragraph 2 (marked as item 5) which describes a "Remote Pointer On" that acts as a red laser pointer to pinpoint area of interest on a collaboration whiteboard shown in the figure on page 7; the shape and the position of the laser pointer is transmitted as additional content along with the whiteboard content and displayed on the selected remote display).

However, Nurcahya et al., as modified by Chang et al., Microsoft Educator

Tutorial Series and Gross, do not specifically disclose that the additional content is to be displayed as a colored mark.

In the same field of endeavor, Rosen et al. show and disclose the claimed computer readable medium, wherein said additional content is to be displayed as a colored mark (Fig. 8, modified pointer 44a; column 3, lines 54-60 which disclose a means for enabling cursors and pointers to change color, shape, etc., when the display terminal, which has a network connection, receives certain instructions from a remote or server computer attached to the network).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to display said additional content, i.e. mouse input of the computing device, as a colored dot, as taught by Rosen et al., in the computer readable medium of Nurcahya et al., as modified by Chang et al., Microsoft Educator

Tutorial Series and Gross, so as to draw attention of the recipient to the specific display location under review.

Claims 43, 44, 48-52 and 55-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strunk et al. (U.S. Patent Application Publication # 2003/0078840 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1).

Consider claim 43, Strunk et al. show and disclose a method for projecting content from a first computing device to at least one other computing device (Fig. 1A that shows a method for projecting content from a web content server 16 (a first computing device) via the Internet or intranet to a computer 40 with touch screen communication capable poster display 10 (another computing device); paragraphs 0071-0072 disclose the same details), including: setting the first computing device into a Presentation mode (abstract that discloses an interactive advertising and public announcement system, including a display device, for processing and displaying media presentation; paragraph 0061 which discloses creating a Playlist that includes a plurality of Interactive Posters categorized by subject matter, e.g. products and services a company may offer, or in a multiplex theatre, movie titles and trailers for each of the plurality of trailers); instantiating on said first computing device software functionality associated with content projection (paragraph 0010 which describes a distributed processor and a distributed storage array that stores a program that is operative with the processor to

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generate and project on the group display device one or more interactive posters; paragraph 0061 which further discloses that the advertising presentation on a group display device 10 (in Fig. 1A) may be personalized for different users or groups, thereby disclosing instantiating on said first computing device software functionality associated with content projection).

However, Strunk et al. do not specifically disclose discovering according to a discovery mode whether at least one other computing device is available to receive and display projected content; if at least one other computing device is discovered, displaying a user interface reflecting the available at least one other computing device; via the user interface, one of (A) selecting content to project, (B) selecting a target device for projection and (C) configuring a projection characteristic.

In the same field of endeavor, Chang et al. show and disclose the claimed method, including discovering according to a discovery mode whether at least one other computing device is available to receive and display projected content (Fig. 5, discovery process step 502; paragraphs 0132-0140 that disclose the details of the claimed method); and

if at least one other computing device is discovered, displaying a user interface reflecting the available at least one other computing device (flowchart of Fig. 6, that shows providing a list of discovered output devices to user in step 600; Fig 8B that shows a Graphic User Interface 810 displaying discovered printer devices; paragraph 0196 and 0199 disclose the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also

be a television, monitor, and projectors, etc.);

via the user interface, selecting a target device for projection (Fig 8B that shows a Graphic User Interface 810 displaying discovered target devices, and prompting user to select one of the listed target device for projection; paragraph 0196 and 0199 disclose the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also be a television, monitor, and projectors, etc.).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to discover according to a discovery mode whether at least one other computing device is available to receive and display projected content; if at least one other computing device is discovered, displaying a user interface reflecting the available at least one other computing device; via the user interface, one of (A) selecting content to project, (B) selecting a target device for projection and (C) configuring a projection characteristic, as taught by Chang et al., in the method of Strunk et al., so as to be able to locate and select a compatible projection device from a plurality of discovered devices.

Consider claim 44, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., further show and disclose the claimed method, wherein said instantiating includes instantiating said software functionality associated with content projection one of (A) at startup of the first computing device and (B) as part of said setting the first computing device into Presentation mode (in Strunk et al. reference,

paragraph 0061 which discloses creating a Playlist, while setting the first computing device into Presentation mode, wherein the playlist includes a plurality of Interactive Posters categorized by subject matter, e.g. products and services a company may offer, or in a multiplex theatre, movie titles and trailers for each of the plurality of trailers, thereby disclosing instantiating said software functionality associated with content projection as part of setting the first computing device into Presentation mode).

Consider claim 48, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., further show and disclose the claimed method, wherein said setting the first computing device into Presentation mode includes performing an operating system task (in Chang et al. reference, Fig. 8, properties screen 840 that enables a user to specify screen resolution during the presentation mode (an operating system task); paragraph 0204 discloses the same details; Note: although the properties shown in screen 840 are for a printer, display devices can also be specified, as disclosed earlier).

Consider claim 49, and as it applies to claim 48 above, Strunk et al., as modified by Chang et al., further show and disclose the claimed method, wherein said performing an operating system task includes at least one of (A) turning off notifications, (B) turning off screen blanking, (C) preventing audio from sources other than from the content to be projected, (D) changing an aspect of power distribution/conservation, (E) changing a desktop background and (F) changing a screen resolution (in Chang et al.

reference, Fig. 8, properties screen 840 that enables a user to specify screen resolution during the presentation mode (an operating system task); paragraph 0204 discloses the same details; Note: although the properties shown in screen 840 are for a printer, display devices can also be specified, as disclosed earlier).

Consider claim 50, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., further show and disclose the claimed method, wherein said discovering according to a discovery mode includes discovering for a predetermined amount of time after the Presentation mode is set (in Chang et al. reference, paragraphs 0146-0148 which disclose that a user may specify certain search criteria for discovery process 502 (in Fig. 5) and if no available output device 140 (in Fig. 1) is found in the discovery process, the user may be notified by the output manager 308 (in Fig. 3A) through a user interface, providing the reasons for unavailability of the devices; further disclosing in step 508 that alternatives are provided when a requested service is not available at the current moment, thereby teaching discovering for a predetermined amount of time after the Presentation mode is set).

Consider claim 51, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., further show and disclose the claimed method, wherein said discovering according to a discovery mode occurs in the background process of said first computing device without any user intervention (in Chang et al. reference, paragraph 0136 which discloses three different automated processes for discovering

computing devices of interest, stating that the discovery process 502 may either broadcast a service request through wired or wireless signals, to which service devices respond; alternatively the service devices periodically or continuously advertise the services they provide, or the service devices may register their services with a controller or server and the discovering device may contact the controller or server for the required service, thereby disclosing that a discovery mode occurs in the background process of said first computing device without any user intervention).

Consider claim 52, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., further show and disclose the claimed method, wherein said displaying includes displaying via the user interface at least one of (A) a status of projection, (B) an indication of an ability to disconnect from at least one other computing device, (C) an indication that additional other devices are available (in Chang et al. reference, flowchart of Fig. 6, that shows providing a list of discovered output devices to user in step 600; Fig 8B that shows a Graphic User Interface 810 displaying discovered printer devices; paragraph 0196 and 0199 disclose the same details; paragraph 0094 which further discloses that although a printer is selected as an example output device 140 (see Fig. 1), it may also be a television, monitor, and projectors, etc.), (D) an indication that at least one other computing device discovered according to said discovering is currently unable to receive content and (E) an indication of most recently used (MRU) other devices that may be selected to bypass said discovering for the recently used other devices (in Chang et al. reference, paragraph 0135 which discloses

that in some situations, the discovery process 502 may be skipped if a user already knows the output device to which output is to be directed (e.g. a frequently used device that is available)).

Consider claim 55, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., further show and disclose a computer readable medium comprising computer executable modules having computer executable instructions for carrying out the method of claim 43 (claims 39-70 in Chang et al. reference and the system claims 1-30 in the Strunk et al. reference, along with the cited figures, paragraphs and lines in claim 43).

Consider claim 56, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., further show and disclose a computing device comprising means for performing the method of claim 43 (claim 1 in Chang et al. reference and the system claims 1-30 in the Strunk et al. reference, along with the cited figures, paragraphs and lines in claim 43).

Consider claim 57, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., further show and disclose a modulated data signal carrying computer readable medium carrying computer executable instructions for performing the method of claim 43 (claims 39-70 in Chang et al. reference and the system claims 1-

30 in the Strunk et al. reference, along with the cited figures, paragraphs and lines in claim 43).

Claims 45-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strunk et al. (U.S. Patent Application Publication # 2003/0078840 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Microsoft in Education (Collaborating with others using NetMeeting, 1999 Microsoft Educator Tutorial Series).

Consider claim 45, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al., show and disclose the claimed method, except wherein said setting includes setting the first computing device into Presentation mode via any of (A) a menu location under a start menu, (B) a top level user interface mechanism of said user interface, (C) display bar part (D) a shortcut and (E) a sidebar.

In the same field of endeavor, Microsoft Educator Tutorial Series disclose the claimed method, wherein said setting includes setting the first computing device into Presentation mode via any of (A) a menu location under a start menu, (B) a top level user interface mechanism of said user interface, (C) display bar part (D) a shortcut and (E) a sidebar (Whiteboard figure shown on page 7; step 1 of the section "To use the Whiteboard" that teaches either clicking on a shortcut "Whiteboard" or selecting it from the Tools menu in order to setting the first computing device into Presentation mode);

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to set the first computing device into Presentation mode via any of (A) a menu location under a start menu, (B) a top level user interface mechanism of said user interface, (C) display bar part (D) a shortcut and (E) a sidebar, as taught by Microsoft Educator Tutorial Series, in the method of Strunk et al., as modified by Chang et al., so as to be able to configure the computing device for projecting content on at least one of the discovered display devices.

Consider claim 46, and as it applies to claim 43 above, Strunk et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further show and disclose the claimed method, wherein said configuring includes at least one of (A) setting a password for the projection, (B) selecting a cloning mode or an extended mode, (C) selecting the screen resolution and (D) selecting video or audio and video (in Microsoft Educator Tutorial Series, pages 10-11 that disclose steps to invoke audio conferencing or configure video conferencing in a collaborative NetMeeting).

Consider claim 47, and as it applies to claim 46 above, Strunk et al., as modified by Chang et al. and Microsoft Educator Tutorial Series, further show and disclose the claimed method, wherein at least one of (A) said selecting a cloning mode or an extended mode defaults to cloning mode and (B) said selecting the screen resolution defaults to current settings and (C) said selecting video or audio and video defaults to audio and video (in Microsoft Educator Tutorial Series, page 11 that

discloses settings to configure video conferencing as a default, whereas the audio conference is controlled as the conference continues).

Claim 49 is also rejected under 35 U.S.C. 103(a) as being unpatentable over Strunk et al. (U.S. Patent Application Publication # 2003/0078840 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Olson et al. (U.S. Patent Publication # 7,140,731 B2).

Consider claim 49, and as it applies to claim 48 above, Strunk et al., as modified by Chang et al. and Olson et al., further show and disclose the claimed method, wherein said performing an operating system task includes at least one of (A) turning off notifications, (B) turning off screen blanking, (C) preventing audio from sources other than from the content to be projected, (D) changing an aspect of power distribution/conservation, (E) changing a desktop background and (F) changing a screen resolution (in Olson et al. reference, Fig. 10, user interface screen 400, preferences section 470 that enables a user to set screen resolution using a slider scale 418, turn off other application alert messages by selecting the checkbox 422, and turn off screen saver while projecting by selecting the checkbox 424 during the presentation mode (an operating system task); column 12, lines 6-22 disclose the same details).

Claim 53 is rejected under 35 U.S.C. 103(a) as being unpatentable over Strunk et al. (U.S. Patent Application Publication # 2003/0078840 A1) in view of Chang et

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al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Loisey et al. (U.S. Patent Application Publication # 2002/0133330 A1).

Consider claim 53, and as applied to claim 43 above, Strunk et al., as modified by Chang et al., disclose the claimed method, except further comprising assigning a name and a password to the content, whereby content can only be sent to a selected target device if the name and password are received from the selected target device for projection.

In the same field of endeavor, Loisey et al. disclose the claimed method, further comprising:

assigning a name and a password to the content, whereby content can only be sent to a selected target device if the name and password are received from the selected target device for projection (paragraph 0030 which discloses that a user at the selected target device has to supply a userid and a password or other authentication information before any output is displayed on the selected target device's display; paragraph 0059 which further discloses setting access control privileges on directory objects so that individual users or groups of users may only have access to specific objects including data and software applications to which they have subscribed access and use privilege).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to assign a name and a password to the content, whereby content can only be sent to a selected target device if the name and password are received from the selected target device for projection, as taught by Loisey et al., in

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the method of Strunk et al., as modified by Chang et al., so as to be prevent unauthorized download of proprietary content on to a target device.

Claim 54 is rejected under 35 U.S.C. 103(a) as being unpatentable over Strunk et al. (U.S. Patent Application Publication # 2003/0078840 A1) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in view of Reisman (U.S. Patent Application Publication # 2003/0229900 A1).

Consider **claim 54**, and **as applied to claim 43 above**, Strunk et al., as modified by Chang et al., show and disclose the claimed method, further including in response to said selecting content to project and said selecting a target device for projection, projecting said content to said target device via said remote session (in Strunk et al. reference, Fig. 1A that shows a method for projecting content from a web content server 16 (a first computing device) via the Internet or intranet to a computer 40 with touch screen communication capable poster display 10 (another computing device); paragraphs 0071-0072 disclose the same details).

However, Strunk et al., as modified by Chang et al., do not specifically disclose creating a remote session between said first computing device and said target device in response to said selecting content to project and said selecting a target device for projection.

In the same field of endeavor, Reisman discloses the claimed method, further including in response to said selecting content to project and said selecting a target

device for projection, creating a remote session between said first computing device and said target device (paragraphs 0051, 0105, 0479 and 0480 that disclose establishing a remote session, via a remote protocol (RDP or Citrix ICA), between the computing device and the selected target device).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to establish a remote session, via a remote protocol, between the computing device and the selected target device, as taught by Reisman, in the method of Strunk et al., so that the selected content can be displayed remotely at the selected target device.

Claim 61 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Nurcahya et al. (U.S. Patent Application Publication # 2003/0225621 A1) in view of

Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) and further in

view of Reisman (U.S. Patent Application Publication # 2003/0229900 A1) and

further in view of Microsoft in Education (Collaborating with others using

NetMeeting, 1999 Microsoft Educator Tutorial Series).

Consider claim 61, and as applied to claim 58 above, Nurcahya et al., as modified by Chang et al., and Reisman, disclose the claimed server computing device, except wherein before transmitting content to a selected client display device, said remote session component transmits an authorization request to the selected client

display device; and waits for a response from the selected client display device authorizing the transmission of content.

In the same field of endeavor, Microsoft Educator Tutorial Series disclose the claimed server computing device, wherein before transmitting content to a selected client display device, said remote session component transmits an authorization request to the selected client display device (in Microsoft Educator Tutorial Series reference for a NetMeeting, the window labeled "New Call" on page 3 that enables a transmitting device to transmit a request for transmitting content to a selected receiving device which is being called; steps 1-3 listed in the section "To place a call" on page 4 disclose the same details); and waits for a response from the selected client display device authorizing the transmission of content (in Microsoft Educator Tutorial Series reference, page 4, steps 4-5 in the section "To place a call", that disclose waiting for an "Accept/Reject" button click response from the receiving device authorizing the transmission of content).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to transmit an authorization request to the selected client display device, before transmitting content to the selected client display device, and wait for a response from the selected client display device authorizing the transmission of content, as taught by Microsoft Educator Tutorial Series, in the claimed server computing device of Nurcahya et al., as modified by Chang et al., and Reisman, so as to be able to communicate and transfer the content to be displayed on the remote display.

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Claims 74 and 75 are rejected under 35 U.S.C. 103(a) as being unpatentable over Microsoft in Education (Collaborating with others using NetMeeting, 1999 Microsoft Educator Tutorial Series) in view of Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1).

Consider claim 74, Microsoft Educator Tutorial Series discloses a method for controlling an alternate display device (page 3, section "Using NetMeeting", which describes a session (NetMeeting) that an instructor of an online course may use to have an online discussion in real time with his or her students; page 5, section "To receive a call" further discloses an "Accept/Reject" button in the lower right corner of the window that enables meeting originators to allow or disallow users to join the meeting, thereby disclosing controlling an alternate display device), comprising: establishing a connection between a computing device and an alternate display device for the purpose of projecting content from the computing device to the alternate display device (page 4, section "To place a call", steps 1-3 describe the method used to establish a connection between a computing device and an alternate display device for the purpose of projecting content from the computing device to the alternate display device; Whiteboard figure in page 7 shows a sample of the projected content from the computing device to the alternate display device); receiving from the alternate display device a session token that identifies the projection session between the alternate display device and the computing device and authorizes

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said computing device to control the projection session of the alternate display device (page 5, section "To receive a call", steps 1-2 which describe "Accept/Reject" buttons in the lower right corner of a recipient's window, that enables the call recipient to accept the invitation to join the NetMeeting being set up, by clicking on the "Accept" button, thereby sending a session token that identifies the projection session between the alternate display device and the computing device).

However, Microsoft Educator Tutorial Series does not specifically mention authorizing said computing device to control the projection session of the alternate display device; and controlling the alternate display device according to the authorization of the session token.

In the same field of endeavor, Chang et al. disclose the claimed method, further comprising authorizing said computing device to control the projection session of the alternate display device (paragraph 0200 which discloses that if a printer (a display device) is restricted to be used by a certain group of users, the user may be required to provide identification information before being authorized to use and control the projection session of the alternate display device); and controlling the alternate display device according to the authorization of the session token (paragraph 0201 which discloses service negotiation process 514 (in Fig. 6) that results in the authorization of the session token from the alternate display device; Fig. 8E, screen 840 which shows a user interface to select preferences such as page range, number of copies, color or grayscale, resolution, etc., thereby disclosing controlling the alternate display device (printer)).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to authorize said computing device to control the projection session of the alternate display device; and control the alternate display device according to the authorization of the session token, as taught by Chang et al., in the method of Microsoft Educator Tutorial Series, so that the computing device can display content on the alternate display device, according to the agreed upon terms that are based on the capabilities of the alternate display device.

Consider claim 75, and as it applies to claim 74 above, Microsoft Educator Tutorial Series, as modified by Chang et al. further discloses the claimed method, wherein said controlling includes at least one of (A) disconnecting said connection, (B) changing the display settings for the projection session, (C) retrieving the display settings for the projection session, (D) transferring authorization to control the alternate display device to a third party device and (E) blacking blanking out the projection session on the alternate display device (in Chang et al. reference, paragraph 0204 which describes several settings that the user may change for the projection session, such as color or grayscale, page layout parameters, resolution, etc.).

Claim 75 is also rejected under 35 U.S.C. 103(a) as being unpatentable over

Microsoft in Education (Collaborating with others using NetMeeting, 1999

Microsoft Educator Tutorial Series) in view of Chang et al. (U.S. Patent Application

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Publication # 2002/0059415 A1) and further in view of Olson et al. (U.S. Patent Publication # 7,140,731 B2).

Consider claim 75, and as it applies to claim 74 above, Microsoft Educator Tutorial Series, as modified by Chang et al., and Olson et al., further show and disclose the claimed method, wherein said performing an operating system task includes at least one of (A) turning off notifications, (B) turning off screen blanking, (C) preventing audio from sources other than from the content to be projected, (D) changing an aspect of power distribution/conservation, (E) changing a desktop background and (F) changing a screen resolution (in Olson et al. reference, Fig. 10, user interface screen 400, preferences section 470 that enables a user to set screen resolution using a slider scale 418, turn off other application alert messages by selecting the checkbox 422, and turn off screen saver while projecting by selecting the checkbox 424 during the presentation mode (an operating system task); column 12, lines 6-22 disclose the same details).

Claim 79 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. (U.S. Patent Application Publication # 2002/0059415 A1) in view of Microsoft in Education (Collaborating with others using NetMeeting, 1999 Microsoft Educator Tutorial Series).

Consider **claim 79**, and **as it applies to claim 78 above**, Chang et al., show and disclose the claimed method, except wherein said displaying includes displaying alternate content in addition to the content on the display.

In the same field of endeavor, Microsoft Educator Tutorial Series discloses the claimed method, wherein said displaying includes displaying alternate content in addition to the content on the display (page 8, section "Using the Whiteboard", step 5, which discloses adding a "Remote Pointer" similar to a laser pointer used in presentations; the remote pointer pointing to an area of emphasis in the remotely projected content).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to display alternate content in addition to the content on the display, as taught by Microsoft Educator Tutorial Series, in the method of Chang et al., so that remote participants can notice the portion of the content that is being emphasized by the presenter.

Claims 80 and 81 are rejected under 35 U.S.C. 103(a) as being unpatentable over Microsoft in Education (Collaborating with others using NetMeeting, 1999 Microsoft Educator Tutorial Series) in view of Reisman (U.S. Patent Application Publication # 2003/0229900 A1).

Consider **claim 80**, Microsoft Educator Tutorial Series discloses a method for enabling an alternate display device to receive content from a computing device (Page

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7, "Using the Whiteboard", which shows an alternate display device receiving contents (of a whiteboard with tic-tac-toe game) from a computing device (that initiated the video conference)), comprising:

receiving a request to deliver the content from the computing device via a network (Page 5, section "Ro receive a call", step 1 that discloses receiving a call (request) to participate in a NetMeeting, and to receive conference contents from the caller (conference organizer's computing device) via the Internet or intranet; step 1 further disclosing displaying an "Accept/Reject" button on the alternate display device after the request is received);

in response to said receiving, accepting the request via a user interface (the placing of "Accept/Reject" button on the alternate display device provides a user interface to the alternate display participant to accept or decline the request), and receiving the content from the computing device over the network (Page 7, "Using the Whiteboard", which shows the alternate display device receiving contents (of a whiteboard with tic-tac-toe game) from the computing device (that initiated the video conference).

However, Microsoft Educator Tutorial Series does not specifically discuss establishing a remote computing session with the computing device.

In the same field of endeavor, Reisman discloses the claimed method, including establishing a remote computing session with the computing device (paragraphs 0051, 0105, 0479 and 0480 that disclose establishing a remote session, via a remote protocol

(RDP or Citrix ICA), between the computing device and the selected at least one alternate display device).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to establish a remote computing session with the computing device, as taught by Reisman, in the method of Microsoft Educator Tutorial Series, so that the computing device can remotely display conference content on the selected alternate display devices.

Consider claim 81, and as applied to claim 80 above, Microsoft Educator

Tutorial Series, as modified by Reisman, discloses the claimed method, further

comprising rendering the content received from the computing device (in Microsoft

Educator Tutorial Series, Page 7, "Using the Whiteboard", which shows the alternate

display device rendering contents (of a whiteboard with tic-tac-toe game) received from
the computing device.

Claim 82 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Microsoft in Education (Collaborating with others using NetMeeting, 1999

Microsoft Educator Tutorial Series) in view of Reisman (U.S. Patent Application

Publication # 2003/0229900 A1) and further in view of Chang et al. (U.S. Patent

Application Publication # 2002/0059415 A1).

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Consider **claim 82**, and **as applied to claim 81 above**, Microsoft Educator

Tutorial Series, as modified by Reisman, discloses the claimed method, except wherein said rendering includes rendering the content according to an accessibility infrastructure located on the alternate display device.

In the same field of endeavor, Chang et al. disclose the claimed method, wherein said rendering includes rendering the content according to an accessibility infrastructure located on the alternate display device (paragraph 0144 which discloses that security authentication may be required when an output service is restricted to a certain group of users or information apparatuses, consequently a particular user may not be able to render the contents on the located alternate display device).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to render the content according to an accessibility infrastructure located on the alternate display device, as taught by Chang et al., in the method of Microsoft Educator Tutorial Series, as modified by Reisman, so as to be able to maintain the security of the alternate display device by limiting access to it.

Claim 83 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Microsoft in Education (Collaborating with others using NetMeeting, 1999

Microsoft Educator Tutorial Series) in view of Reisman (U.S. Patent Application

Publication # 2003/0229900 A1) and further in view of Darby (U.S. Patent

Application Publication # 2003/0013438 A1).

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Consider **claim 83**, and **as applied to claim 81 above**, Microsoft Educator Tutorial Series, as modified by Reisman, discloses the claimed method, except wherein said rendering includes rendering the content according to a multi lingual user interface such that the content is displayed according to the another language.

In the same field of endeavor, Darby discloses the claimed method, wherein said rendering includes rendering the content according to a multi lingual user interface such that the content is displayed according to the another language (paragraph 0047 which discloses that the maps, directions, and other display contents are in the native language of the end-user (Japanese in the tourist example), and can also be bi-lingual (in both the end-user's language and the local language in the visited country), to facilitate asking bystanders for assistance; further disclosing that display of two or more languages is selectable by the end-user).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to render the content according to a multi lingual user interface such that the content is displayed according to the another language, as taught by Darby, in the method of Microsoft Educator Tutorial Series, as modified by Reisman, so as to be able to communicate and transfer the content in any language familiar to the recipient viewing contents on a remote display.

Claim 84 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Microsoft in Education (Collaborating with others using NetMeeting, 1999

Microsoft Educator Tutorial Series) in view of Reisman (U.S. Patent Application

Publication # 2003/0229900 A1) and further in view of Strunk et al. (U.S. Patent Application Publication # 2003/0078840 A1).

Consider claim 84, Microsoft Educator Tutorial Series discloses a method for enabling an alternate display device to receive content from a computing device (Page 7, "Using the Whiteboard", which shows an alternate display device receiving contents (of a whiteboard with tic-tac-toe game) from a computing device (that initiated the video conference)), comprising:

requesting via a user interface to receive projected content from the computing device ("New Call" window shown on page 3 and the steps 1-4 listed under "To place a call" for a participant "To join an existing meeting", the steps and the new call window providing a user interface to receive projected content from the computing device);

sending a request to receive projected content from the computing device (step 3 of "To place a call" wherein the participant clicks the "Call" button, thereby sending a request to receive projected content from the computing device);

receiving a response from the computing device (steps 4 and 5 of "To place a call" that

disclose displaying an "Accept/Reject" button at the computing device end that enables the participant at the computing end device to either agree to or deny participation of the alternate display device wishing to receive the projected content of the meeting; further disclosing that the alternate display device receives either an accept response or a reject response from the computing device);

However, Microsoft Educator Tutorial Series does not explicitly disclose receiving

a response including information to establish a remote computing session with the computing device; establishing a remote computing session with the computing device based on said information; and wirelessly receiving the content from the computing device.

In the same field of endeavor, Reisman discloses the claimed method including receiving a response including information to establish a remote computing session with the computing device; and establishing a remote computing session with the computing device based on said information (paragraph 479 which discloses that in order to establish, join and maintain a remote session, relevant state information for that remote session be transferred).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to receive a response including information to establish a remote computing session with the computing device and establish a remote computing session with the computing device based on said information, as taught by Reisman, in the method of Microsoft Educator Tutorial Series, so as to be able to project contents remotely from the computing device to the alternate display device.

However, Microsoft Educator Tutorial Series, as modified by Reisman, does not specifically disclose wirelessly receiving the content from the computing device.

In the same field of endeavor, Strunk et al. disclose the claimed method including wirelessly receiving the content from the computing device (Fig. 1A that shows a method for projecting content from a web content server 16 (a computing device) via the Internet or intranet to a computer 40 with touch screen communication capable poster

display 10 (alternate display device); paragraphs 0071-0072 disclose the same details; claim 16 which discloses that the remote device comprises a transceiver for sending and receiving content wirelessly).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to wirelessly receive the content from the computing device, as taught by Strunk et al., in the method of Microsoft Educator Tutorial Series, as modified by Reisman, so as to provide contents to mobile as well as wired remote devices.

Claims 85 and 86 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olson et al. (U.S. Patent Publication # 7,140,731 B2) in view of Reisman (U.S. Patent Application Publication # 2003/0229900 A1).

Consider **claim 85**, Olson et al. show and disclose a method for projecting content from a plurality of computing devices to an alternate display device (Fig. 4 that shows a plurality of computing devices 56-64, either wired or wirelessly connected via network 61 to an image-rendering device 14; column 5, line 59 through column 6, line 39 disclose the details of a method for projecting content from a plurality of computing devices 56-64 to image-rendering device 14), comprising: transmitting first content from the first computing device to the alternate display device via the remote session, rendering the first content via a first display of the first computing device, transmitting second content from a second computing device to the

alternate display device via the remote session; and rendering the second content via a second display of the second computing device (Figs. 2 and 4; column 2, lines 58-61 which disclose that the image-rendering device 14 (alternate display device) is adapted to receive images from a plurality of different sources and is further adapted to automatically transmit a projectable image to image projector 12 as shown in Fig. 4; also, column 6, lines 4-31 which disclose using a wireless network card within the image rendering device 14, so that a plurality of users can alternatively link to the local area network and send images/presentations to an image projector without individually having to manually couple their computer to a projector; further disclosing that usually the user who is presenting or the active presenter must release or exit from the currently active presentation to enable a second presenter to begin sending data to device 14 for presentation);

discovering according to a discovery protocol an alternate display device capable of receiving and rendering projected content (Figs 9A-9B and 10 that show a flowchart for discovering an alternate display device in a network environment, and the results of the discovery (in Fig. 10); column 10, lines 20-67 describe the details of discovering the image-rendering devices over the WLAN).

However, Olson et al. do not specifically disclose establishing a remote session, via a remoting protocol, between a first computing device of the plurality of computing devices and the alternate display device.

In the same field of endeavor, Reisman discloses the claimed method, further comprising establishing a remote session, via a remoting protocol, between a first

computing device of the plurality of computing devices and the alternate display device (paragraphs 0051, 0105, 0479 and 0480 that disclose establishing a remote session, via a remoting protocol (RDP or Citrix ICA), between a computing device of the plurality of computing devices and an alternate display device).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to establish a remote session, via a remoting protocol, between a first computing device of the plurality of computing devices and the alternate display device, as taught by Reisman, in the method of Olson et al., so that the contents from a computing device may be remotely displayed by the alternate display device during the remote session set up for the purpose.

Consider **claim 86**, and **as applied to claim 85 above**, Olson et al., as modified by Reisman, further disclose the claimed method, wherein the remoting protocol is the remote desktop protocol and the remote session is a terminal services (TS) session (in Reisman reference, paragraph 0105 that describes the remote protocol as Windows Remote Desktop Protocol (RDP) or Citrix Independent Computing Architecture (ICA), and remote session as a Windows Terminal Service (WTS)).

Claim 87 is rejected under 35 U.S.C. 103(a) as being unpatentable over Olson et al. (U.S. Patent Publication # 7,140,731 B2) in view of Reisman (U.S. Patent Application Publication # 2003/0229900 A1) and further in view of Microsoft in

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Education (Collaborating with others using NetMeeting, 1999 Microsoft Educator Tutorial Series).

Consider **claim 87**, and **as applied to claim 85 above**, Olson et al., as modified by Reisman, disclose the claimed method, except wherein the rendering of the first content is substantially simultaneous with-said transmitting of the first content.

In the same field of endeavor, Microsoft Educator Tutorial Series discloses the claimed method, wherein the rendering of the first content is substantially simultaneous with-said transmitting of the first content (page 2, section "Before You Begin", lines 1-5, which disclose that the NetMeeting is a synchronous online collaboration and communication method that happens in "real time", thereby teaching that the content is substantially simultaneously displayed on the selected receiving display device in response to said transmitting).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a method wherein the rendering of the first content is substantially simultaneous with-said transmitting of the first content, as taught by Microsoft Educator Tutorial Series, in the method of Olson et al., as modified by Reisman, so as to be able to communicate and transfer the content in real time to a recipient viewing the contents on a remote display.

Claim 88 is rejected under 35 U.S.C. 103(a) as being unpatentable over Olson et al. (U.S. Patent Publication # 7,140,731 B2) in view of Reisman (U.S. Patent

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Application Publication # 2003/0229900 A1) and further in view of Chang et al. (U.S.

Patent Application Publication # 2002/0059415 A1).

Consider claim 88, and as applied to claim 85 above, Olson et al., as modified

by Reisman and Chang et al., further disclose the claimed method, further including

wherein the discovery protocol is the universal plug and play (UPnP) protocol (in Chang

et al. reference, Fig. 5, discovery process step 502; paragraphs 0136-0137 which

disclose a plurality of discovery protocols, such as Bluetooth, HAVi, Jini, Salutation,

Service Location Protocol, and Universal Plug and Play, etc.).

Conclusion

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Examiner should be directed to Kishin G. Belani whose telephone number is (571) 270-1768. The Examiner can normally be reached on Monday-Friday from 6:00 am to 5:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Tonia Dollinger can be reached on (571) 272-4170. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

/K. G. B./ Examiner, Art Unit 2443

March 6, 2009

/George C Neurauter, Jr./ Primary Examiner, Art Unit 2443